



RENO REFRACTORIES, INC

JET CAST NC 52 AR

TECHNICAL DATA SHEET

JET CAST NC 52 AR is a high alumina no cement castable that contains silicon carbide and zircon. **JET CAST NC 52 AR** has low porosity, high strengths and excellent resistance to alkali, thermal shock, abrasion and oxidation.

JET CAST NC 52 AR is recommended for ducts, bullnoses, risers, and hoods in Cement, Lime and Minerals Processing plants. This material can be installed by vibration casting, pumping and shotcrete.

SERVICE TEMPERATURE: 3000°F (Reducing)
MATERIAL REQUIRED FOR ESTIMATING: 156 lbs./cu. ft.
STORAGE LIFE: 6 months
BINDER ADDITION: 11 - 12%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	ZrO ₂	SiC	Fe ₂ O ₃
52	32	5-6	7-8	0.7

TYPICAL PHYSICAL PROPERTIES (Pumped)

Pre-fired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Abrasion Loss, cc	Porosity %
750	1,100 – 1,200	5,200 – 5,500	Nil	--	18.0
1500	1,100 – 1,200	5,200 – 5,500	-0.3	7	18.2
2000	2,200 – 2,500	9,000 – 10,000	-0.3	--	16.2
2200	2,500 – 2,600	10,000-10,750	-0.3	--	13.2
2500	2,500 – 2,650	10,500-11,000	+1.5	5	15.7
2650	2,600 – 2,725	14,000-14,500	+2.1	--	13.7

Coefficient of Thermal Expansion: 2.4 x10⁻⁶ in/in/°F

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)
1500 lb. bulk bags, 2 per pallet (3,000 lbs)
2000 lb. bulk bags, 2 per pallet (4,000 lbs)

19-109H

PIN 189903 7/13/19

The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specification purposes.

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